This listing of claims will replace all prior versions, and listings, of claims in the application:

# **Listing of Claims:**

1. (Currently Amended): A liquid-crystalline medium, comprising two or more liquid crystal compounds wherein wheren at least one compound is of formula I

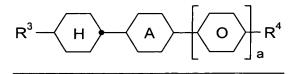
$$R^a \longrightarrow H \longrightarrow O \longrightarrow H \longrightarrow R^b$$

wherein

- R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,
- is alkenyl with 2 to 9 carbon atoms an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by O,

  S, CH=CH, C=C, CO, COO, OCO-or O-CO-O-in such a way that O atoms are not linked directly to one another,
- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 0, 1, 2, 3 or 4; and

said mixture further comprises at least one compound of the formula



# in which

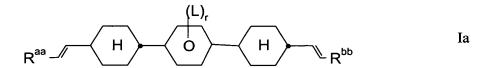
A is 1,4-phenylene or trans-1,4-cyclohexylene,

a is 0 or 1,

R<sup>3</sup> is an alkenyl group having from 2 to 9 carbon atoms, and

R<sup>4</sup> is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C≡C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another.

- 2. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium comprises at least one compound of formula I in which the phenyl ring is substituted by L in 2- and 3-position or in 3- and 5-position or in 2- and 6-position, and/or R<sup>b</sup> is alkenyl with 2 to 9 carbon atoms.
- 3. (Previously Presented): A liquid-crystalline medium according to claim 1, wherein said medium comprises at least one compound of formula I wherein L is F, Cl, CN, CF<sub>3</sub>, OCF<sub>3</sub> or OCH<sub>3</sub>.
- 4. (Previously Presented): A liquid-crystalline medium according to claim 1, wherein said medium comprises at least one compound of formula I selected from the following formulae



$$R^{aa}$$
  $H$   $O$   $H$   $R^{bb}$   $Ib$ 

$$R^{aa}$$
  $H$   $O$   $H$   $R^{bb}$   $Ic$ 

$$R^{aa}$$
  $H$   $O$   $H$  alkyl

$$R^{aa}$$
  $H$   $O$   $H$   $Alkyl$   $Ie$ 

wherein  $R^{aa}$  and  $R^{bb}$  are independently of each other H,  $CH_3$ ,  $C_2H_5$  or n- $C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon atoms.

# 5. (Cancelled):

6. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium <u>further</u> comprises at least one compound of formula II\*

$$R^3$$
  $H$   $O$   $Q-Y$   $II*$ 

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R<sup>3</sup> is an alkenyl group with 2 to 7 carbon atoms,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F.

7. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium <u>further</u> comprises at least one compound selected from the following formulae

$$R \longrightarrow L^1$$
 $CN$ 
IIIb

$$R \longrightarrow COO \longrightarrow COO \longrightarrow CN$$

$$L^{2}$$
IIIc

wherein

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by -O-,

-CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup> and L<sup>2</sup> are independently of each other H or F.

8. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium <u>further</u> comprises at least one compound selected from the following formulae

$$R^{3a}$$
 $H$ 
 $CH=CH$ 
 $H$ 
 $O$ 
 $Alkyl$ 
 $IV24a$ 
 $IV24b$ 

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or n- $C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon atoms.

9. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium <u>further</u> comprises at least one compound selected from the following formulae

$$R^{1} \longrightarrow O \longrightarrow C \equiv C \longrightarrow O \longrightarrow R^{2} \qquad Ta$$

$$R^{1} \longrightarrow H \longrightarrow O \longrightarrow C \equiv C \longrightarrow O \longrightarrow R^{2} \qquad Tb$$

$$R^{1} \longrightarrow O \longrightarrow O \longrightarrow R^{2} \longrightarrow Th$$

wherein

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another.

- 10. (Previously Presented): A liquid-crystalline medium according to claim 1, wherein said medium comprises:
  - one or more compounds of formula I;
  - one or more compounds selected from formulae II,

$$R^3$$
  $H$   $A$   $O$   $A$   $II$ 

in which

- A is 1,4-phenylene or trans-1,4-cyclohexylene,
- a is 0 or 1,
- R<sup>3</sup> is an alkenyl group having from 2 to 9 carbon atoms, and
- $R^4$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another;
  - optionally one or more compounds of formula II\*,

$$R^3$$
  $H$   $O$   $Q-Y$   $II*$ 

R<sup>3</sup> is an alkenyl group with 2 to 7 carbon atoms,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F;

- one or more compounds selected from formulae IIIa-IIIh,

$$R \xrightarrow{L^{3}} CN$$

$$L^{2}$$

$$L^{2}$$

$$L^{3}$$

$$CN$$
IIIa

$$R \longrightarrow H \longrightarrow CN$$
 IIIb

$$R - O - COO - O - CN$$

$$L^{2}$$
IIIc

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$$R \longrightarrow \begin{array}{c} L^1 \\ O \longrightarrow CN \end{array}$$
 IIId

$$R - CH_2CH_2 - CN$$

$$L^2$$
IIIe

$$R - \left( \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \right) - COO - \left( \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \right) - CON$$
 IIIf

$$R - O - O - CN$$

$$L^{2}$$
IIIg

$$R \xrightarrow{H} COO \xrightarrow{O} CN \qquad IIIh$$

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each , independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup>, L<sup>2</sup> and L<sup>3</sup> are independently of each other H or F;

one or more compounds selected of formulae Ta-Ti,

$$R^{1}$$
  $O$   $C \equiv C$   $O$   $R^{2}$   $Ta$ 

$$R^1 \longrightarrow G \longrightarrow C \equiv C \longrightarrow G \longrightarrow R^2$$
 Tb

$$R^1$$
  $H$   $CH_2CH_2$   $O$   $C \equiv C$   $O$   $R^2$   $Tc$ 

$$R^1 \longrightarrow H \longrightarrow COO \longrightarrow C \equiv C \longrightarrow O \longrightarrow R^2$$
 Td

$$R^1$$
  $O$   $C \equiv C$   $O$   $R^2$   $Tf$ 

$$R^1$$
  $H$   $Z^4$   $O$   $C \equiv C$   $O$   $R^2$   $Tg$ 

$$R^1 - O - O - R^2$$
 Th

$$R^1 \longrightarrow O \longrightarrow R^2$$

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another,

 $Z^4$  is -CO-O-, -CH<sub>2</sub>CH<sub>2</sub>- or a single bond, and

 $L^1$  to  $L^6$  are independently of each other H or F; and

- optionally one or more compounds of formula IV24

$$R^1 \longrightarrow CH = CH \longrightarrow H \longrightarrow O \longrightarrow R^2$$
 IV24

wherein

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another

- 11. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium comprises
  - 5 to 30 % of compounds of formula I;
  - 10 to 50 % of compounds selected from formula II and II\*,

in which

A is 1,4-phenylene or trans-1,4-cyclohexylene,

a is 0 or 1,

R<sup>3</sup> in formula II is an alkenyl group having from 2 to 9 carbon atoms,

R<sup>3</sup> in formula II\* is an alkenyl group with 2 to 7 carbon atoms,

 $R^4$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or  $CF_3$  or at least monosubstituted by halogen, and wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F;

7 to 45 % of compounds selected formula Ta, Tb and Th,

$$R^1 - \left(O\right) - C \equiv C - \left(O\right) - R^2$$
 Ta

$$R^{1}$$
  $H$   $O$   $C \equiv C$   $O$   $R^{2}$   $Tb$ 

$$R^1 - O - O - R^2$$
 Th

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another;

- 2 to 25 % of compounds selected from formula IV24a and IV24b,

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or n- $C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon <u>atoms</u>; and <u>atoms</u>; and

8 to 40 % of compounds selected from formulae IIIa to IIIh

$$R - \underbrace{O - \underbrace{O}_{L^2}^{3} CN}$$

IIIa

$$R - \left( H \right) - \left( O \right) - CN$$

IIIb

$$R - \underbrace{O} - COO - \underbrace{O}_{L^2}^{L^1} CN$$

IIIc

$$R - \left(H\right) - COO - \left(O\right) - CN$$

IIId

$$R - \underbrace{H} - CH_2CH_2 - \underbrace{O} \underbrace{L^1}_{L^2} CN$$

IIIe

$$R - \left(H\right) - \left(O\right) - COO -$$

IIIf

$$R - O - O - CN$$

$$L^{1}$$

$$L^{2}$$
IIIg

$$R \longrightarrow H \longrightarrow COO \longrightarrow CN$$

$$L^{2}$$
IIIh

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each , independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup>, L<sup>2</sup> and L<sup>3</sup> are independently of each other H or F.

- 12. (Currently Amended): A liquid-crystalline medium according to claim 1, wherein said medium comprises
  - 6 to 20 % of compounds of formula I;
  - 10 to 40 % of compounds selected from formula II and II\*,

$$R^3$$
 $H$ 
 $A$ 
 $O$ 
 $a$ 
 $B^4$ 
 $B^4$ 

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in which

A is 1,4-phenylene or trans-1,4-cyclohexylene,

a is 0 or 1,

R<sup>3</sup> in formula II is an alkenyl group having from 2 to 9 carbon atoms,

R<sup>3</sup> in formula II\* is an alkenyl group with 2 to 7 carbon atoms,

 $R^4$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or  $CF_3$  or at least monosubstituted by halogen, and wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F;

10 to 30 % of compounds selected formula Ta, Tb and Th,

$$R^{1}$$
  $O$   $C \equiv C$   $O$   $R^{2}$   $Ta$ 

$$R^1 \longrightarrow C \equiv C \longrightarrow C^2$$
 Tb

$$R^1 \longrightarrow O \longrightarrow R^2$$
 Th

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another;

3 to 20 % of compounds selected from formula IV24a and IV24b,

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or n- $C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon <u>atoms</u>; and <u>atoms</u>; and

10 to 30 % of compounds selected from formulae IIIa to IIIh

$$R \longrightarrow O \longrightarrow CN$$

$$L^{3} \longrightarrow CN$$

$$L^{2}$$
IIIa

$$R - H O CN$$
 IIIb

$$R \longrightarrow COO \longrightarrow O \longrightarrow CN$$

$$L^{2}$$
IIIc

$$R - \begin{array}{c} L^1 \\ \hline \\ L^2 \end{array}$$
 IIId

$$R - CH_2CH_2 - CN$$

$$L^2$$
IIIe

$$R - \underbrace{H} - \underbrace{O} - COO - \underbrace{O} - CN \qquad IIIf$$

$$R - O - O - CN$$
 IIIg

$$R \xrightarrow{H} COO \xrightarrow{O} CN \qquad IIIh$$

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each , independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup>, L<sup>2</sup> and L<sup>3</sup> are independently of each other H or F.

13. (Currently Amended): A liquid-crystalline compound of formula I

$$R^{a} \underbrace{\qquad \qquad H \qquad \qquad }_{C} I$$

wherein

R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,

 $R^b$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF3 or at least monosubstituted by halogen, and wherein one or more CH2 groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

L is, in each occurrence independently, F, Cl, CN or a mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and

r is 0, 1, 2, 3 or 4,

wherein the phenyl ring is substituted by L in 2- and 3-position or in 3- and 5-position or in 2- and 6-position, and/or R<sup>b</sup> is alkenyl with 2 to 9 carbon atoms.

14. (Currently Amended): A liquid-crystalline compound of formula I

$$R^a \longrightarrow H \longrightarrow O \longrightarrow H \longrightarrow R^b$$

wherein

R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,

 $R^b$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF3 or at least monosubstituted by halogen, and wherein one or more CH2 groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

- L is F, Cl, CN, CF<sub>3</sub>, OCF<sub>3</sub> or OCH<sub>3</sub>, and
- r is 0, 1, 2, 3 or 4,

wherein the phenyl ring is substituted by L in 3- and 5-position.

15. (Previously Presented): An electro-optical liquid-crystal display containing a liquid-crystalline medium according to claim 1.

- 16. (Previously Presented): An electro-optical liquid-crystal display containing a liquid-crystalline compound according to claim 13.
  - 17. (Previously Presented): A TN or STN liquid-crystal display comprising:
- two outer plates, which, together with a frame, form a cell,
- a nematic liquid-crystal mixture of positive dielectric anisotropy located in the cell,
- electrode layers with alignment layers on the insides of the outer plates,
- a tilt angle between the longitudinal axis of the molecules at the surface of the outer plates and the outer plates of 0 to 30 degrees, and
- a twist angle of the liquid-crystal mixture in the cell from alignment layer to alignment layer with a value of 22.5° 600°, and
- a nematic liquid-crystal mixture comprising
- a) 15-75% by weight of a liquid-crystalline component A consisting of one or more compounds having a dielectric anisotropy of greater than +1.5;
- b) 25 85% by weight of a liquid-crystalline component B consisting of one or more compounds having a dielectric anisotropy of between -1.5 and +1.5;
- c) 0-20% by weight of a liquid-crystalline component D consisting of one or more compounds having a dielectric anisotropy of below -1.5, and
- d) if desired, an optically active component C in such an amount that the ratio between the layer thickness and the natural pitch of the chiral nematic liquid-crystal mixture is from about 0.2 to 1.3,

wherein said nematic liquid-crystal mixture is as defined in claim 1.

18. (New): A liquid-crystalline medium comprising two or more liquid crystal compounds wherein at least one compound is of formula I

$$R^{a}$$
  $H$   $O$   $H$   $R^{b}$   $I$ 

R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,

- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 0, 1, 2, 3 or 4; and

said medium further comprises at least one compound selected from the following formulae

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or  $n\text{-}C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon atoms.

19. (New): A liquid-crystalline medium comprising two or more liquid crystal compounds wherein at least one compound is of formula I

$$R^a \longrightarrow H \longrightarrow O \longrightarrow H \longrightarrow R^b$$

- R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,
- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 0, 1, 2, 3 or 4,

wherein said medium comprises 5 to 30 % of compounds of formula I;

said medium further comprising 10 to 50 % of compounds selected from formula II and II\*,

$$R^3$$
  $H$   $A$   $O$   $A$   $II$ 

$$R^3$$
  $H$   $H$   $O$   $Q-Y$   $II*$ 

A is 1,4-phenylene or trans-1,4-cyclohexylene,

a is 0 or 1,

R<sup>3</sup> in formula II is an alkenyl group having from 2 to 9 carbon atoms,

R<sup>3</sup> in formula II\* is an alkenyl group with 2 to 7 carbon atoms,

 $R^4$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F;

said medium further comprises 7 to 45 % of compounds selected formula Ta, Tb and Th,

$$R^1 \longrightarrow C \equiv C \longrightarrow C \equiv C \longrightarrow R^2$$

$$R^1 \longrightarrow C \equiv C \longrightarrow C \implies Tb$$

$$R^1 \longrightarrow O \longrightarrow R^2$$
 Th

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another;

said medium further comprises 2 to 25 % of compounds selected from formula IV24a and IV24b,

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or n- $C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon atoms; and

said medium further comprises 8 to 40 % of compounds selected from formulae IIIa to IIIh

$$R \longrightarrow O \longrightarrow CN$$

$$L^{3} \qquad CN$$

$$L^{2}$$

Illa

$$R - \underbrace{H} O \xrightarrow{L^1} CN$$

IIIb

$$R - \underbrace{O} - COO - \underbrace{O} \underbrace{CO} - CN$$

IIIc

$$R - \left( \begin{array}{c} L^1 \\ O \\ C \end{array} \right) = CN$$

IIId

$$R - \underbrace{H} - CH_2CH_2 - \underbrace{O}_{L^2}^{L^1} CN$$

llle

$$R - \left(H\right) - \left(O\right) - COO - \left(O\right) - \left(O\right) - COO - \left(O\right) - \left(O\right) - COO - \left(O\right) - \left(O\right$$

IIIf

$$R - O - O - CN$$

$$L^{1}$$

$$CN$$

$$L^{2}$$

$$R - H - COO - O - CN$$

$$L^{2}$$
IIIh

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup>, L<sup>2</sup> and L<sup>3</sup> are independently of each other H or F.

20. (New): A liquid-crystalline medium comprising two or more liquid crystal compounds wherein at least one compound is of formula I

$$\mathsf{R^a} \underbrace{\mathsf{H}}_\mathsf{O} \underbrace{\mathsf{H}}_\mathsf{R^b} \mathsf{I}$$

wherein

R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,

R<sup>b</sup> is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and

wherein one or more CH2 groups are each, independently of one another, optionally replaced by -O-, -S-,  $\longrightarrow$  , -CH=CH-, -C $\equiv$ C-, -CO-, -CO-O- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 0, 1, 2, 3 or 4,

wherein said medium comprises 6 to 20 % of compounds of formula I;

said medium further comprising 10 to 40 % of compounds selected from formula II and II\*,

$$R^{3} - H - A - O - R^{4}$$

$$R^{3} - H - H - O - Q-Y$$

$$II*$$

in which

- A is 1,4-phenylene or trans-1,4-cyclohexylene,
- a is 0 or 1,
- R<sup>3</sup> in formula II is an alkenyl group having from 2 to 9 carbon atoms,

R<sup>3</sup> in formula II\* is an alkenyl group with 2 to 7 carbon atoms,

 $R^4$  is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and wherein one or more CH<sub>2</sub> groups are each, independently of one another, optionally replaced by -O-, -S-, -CH=CH-, -C $\equiv$ C-, -CO-O-, -O-CO- or -O-CO-O- in such a way that O atoms are not linked directly to one another,

Q is CF<sub>2</sub>, OCF<sub>2</sub>, CFH, OCFH or a single bond,

Y is F or Cl, and

 $L^1$  and  $L^2$  are independently of each other H or F;

said medium further comprising 10 to 30 % of compounds selected formula Ta, Tb and Th,

$$R^{1}$$
  $O$   $C \equiv C$   $O$   $R^{2}$   $Ta$ 

$$R^1 \longrightarrow C \equiv C \longrightarrow C \equiv C \longrightarrow Tb$$

$$R^1 - O - O - R^2$$
 Th

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wherein

 $R^1$  and  $R^2$  are independently of each other an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another;

said medium further comprising 3 to 20 % of compounds selected from formula IV24a and IV24b,

wherein  $R^{3a}$  is H,  $CH_3$ ,  $C_2H_5$  or  $n\text{-}C_3H_7$  and alkyl is an alkyl group with 1 to 8 carbon atoms; and

said medium further comprising 10 to 30 % of compounds selected from formulae IIIa to IIIh

$$R \xrightarrow{L^3} CN$$

$$L^3 CN$$

$$L^2$$
IIIa

$$R - H O CN$$
 IIIb

$$R \longrightarrow COO \longrightarrow O \longrightarrow CN$$

$$L^{1}$$

$$L^{2}$$
IIIc

$$R - H - COO - O - CN$$

$$L^{2}$$
IIId

$$R - CH_2CH_2 - CN$$

$$L^2$$
IIIe

$$R - \underbrace{H} O - COO - \underbrace{O}_{L^2}^{1} CN \qquad IIIIf$$

$$R - O O O CN$$

$$L^{1}$$

$$L^{2}$$
IIIg

$$R \longrightarrow H \longrightarrow COO \longrightarrow CN$$

$$L^{2}$$
IIIh

R is an alkyl, alkoxy or alkenyl group having from 1 to 12 carbon atoms, wherein one or more  $CH_2$  groups are each, independently of one another, optionally replaced by -O-, -CH=CH-, -CO-, -OCO- or -COO- in such a way that O atoms are not linked directly to one another, and

L<sup>1</sup>, L<sup>2</sup> and L<sup>3</sup> are independently of each other H or F.

# 21. (New): A compound is of formula I

$$R^a \longrightarrow H \longrightarrow O \longrightarrow H \longrightarrow R^b$$

wherein

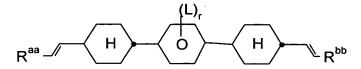
R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,

- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 2;

wherein the L groups are in the 3- and 5-positions of the phenyl ring.

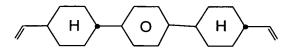
32

# 22. (New): A compound of the formula



wherein r is 0, and R<sup>aa</sup> and R<sup>bb</sup> are each CH<sub>3</sub>.

# 23. (New): The compound of the formula



- 24. (Currently Amended): An electro-optical liquid-crystal display containing a liquid-crystalline compound according to claim 21.
- 25. (Currently Amended): An electro-optical liquid-crystal display containing a liquid-crystalline compound according to claim 22.
- 26. (Currently Amended): An electro-optical liquid-crystal display containing a liquid-crystalline compound according to claim 23.
- 27. (New): A liquid-crystalline medium according to claim 1, wherein R<sup>a</sup> is vinyl, prop-1-enyl, prop-2-enyl, but-1-enyl, but-2-enyl, but-3-enyl, pent-1-enyl, pent-2-enyl, pent-3-enyl or pent-4-enyl.
- 28. (New): A liquid-crystalline medium according to claim 1, wherein R<sup>b</sup> is vinyl, prop-1-enyl, prop-2-enyl, but-1-enyl, but-2-enyl, but-3-enyl, pent-1-enyl, pent-2-enyl, pent-3-enyl or pent-4-enyl.
- 29. (New): A liquid-crystalline medium according to claim 27, wherein R<sup>b</sup> is vinyl, prop-1-enyl, prop-2-enyl, but-1-enyl, but-2-enyl, but-3-enyl, pent-1-enyl, pent-2-enyl, pent-3-enyl

or pent-4-enyl.

- 30. (New): A liquid-crystalline medium according to claim 1, wherein at least one of R<sup>a</sup> and R<sup>b</sup> is hex-1-enyl, hex-2-enyl, hex-3-enyl, hex-4-enyl, hex-5-enyl, hept-1-enyl, hept-2-enyl, hept-3-enyl, hept-4-enyl, hept-5-enyl, oct-1-enyl, oct-2-enyl, oct-3-enyl, oct-4-enyl, oct-5-enyl, oct-6-enyl, oct-7-enyl, non-1-enyl, non-2-enyl, non-3-enyl, non-4-enyl, non-5-enyl, non-6-enyl, non-7-enyl or non-8-enyl.
- 31. (New): A liquid-crystalline medium according to claim 1, wherein at least one of R<sup>a</sup> and R<sup>b</sup> is 1E-propenyl, 1E-butenyl, 1E-pentenyl, 1E-hexenyl, 1E-hexenyl, 3-butenyl, 3E-pentenyl, 3E-hexenyl, 3E-hexenyl, 4Z-hexenyl, 4Z-hexenyl, 4Z-hexenyl, 5-hexenyl, or 6-heptenyl.
- 32. (New): A compound according to claim 13, wherein L is F, Cl, CN, CF<sub>3</sub>, or OCF<sub>3</sub>.
- 33. (New): A compound according to claim 13, wherein R<sup>b</sup> is alkenyl with 2 to 9 carbon atoms.
- 34. (New): A compound according to claim 32, wherein R<sup>b</sup> is alkenyl with 2 to 9 carbon atoms.
- 35. (New): A liquid-crystalline medium, comprising two or more liquid crystal compounds wherein at least one compound is of formula I

$$R^{a} \qquad \qquad H \qquad \qquad I$$

wherein

- R<sup>a</sup> is an alkenyl group having from 2 to 9 carbon atoms,
- R<sup>b</sup> is an alkyl group having 1 to 12 carbon atoms which is unsubstituted, monosubstituted by CN or CF<sub>3</sub> or at least monosubstituted by halogen, and

- L is, in each occurrence independently, F, Cl, CN or an optionally mono- or polyhalogenated alkyl, alkoxy, alkenyl or alkenyloxy group having up to 3 carbon atoms, and
- r is 2; and

wherein the phenyl ring is substituted by L in 3- and 5-position.